

ATGGGGAAACGGGAGCGGGCTCCGGGGTCTCGGAGCTTTGGGCGCGTACCCACGCTGCTGCTGCTCGCCGCGGCGCTA
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 CTGGCCGTGTCGGAGCGCACTCGGGCGCCCTCCGAGGAGGACGAGGAGCTAGTGGTGCCGGAGCTGGAGCGCGCCCGG
 L A V S D A L G R P S E E D E E L V V P E L E R A P
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 G H G T T R L R L H A F D Q Q L D L E L R P D S S F
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 L A P G F T L Q N V G R K S G S E T P L P E T D L A
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 H C F Y S G T V N G D P S S A A A L S L C E G V R K
 GCCTTCTACCTGCTGGGGGAGCGTATTTTCATCCAGCGCTGCCCGCGGACGAGCGCTCGCCACCGCGCGCCCA
 A F Y L L G E A Y F I Q P L P A A S E R L A T A A P
 GGGGAGAAGCGCGCGGCACTACAGTTCCACCTCCTGCGCGGAATCGGACGGGCGAGTAGGCGGCACGTGCGGG
 G E K P P A P L Q F H L L R R N R Q G D V G G T C G
 GTCGTGGAGCAGGAGCCCGCGGACTGGGAAAGCGGAGACCGAAGACGAGGACGAAGGAGTGGGGCGAGGACGAA
 V V D D E P R P T G K A E T E D E D E G T E G E D E
 GGGCCTCAGTGGTGGCGCGAGGACCGGCGCACTGCAAGGCGTAGGACAGCCACAGAACTGGAAGCATAAGAAGAAG
 R F V S S H R Y V E T M L V A D Q S M A E F H G S G
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 L K H Y L L T L F S V A A R L Y K H P S I R N S
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 CTGGTGGTGGTGAAGATCTTGTCTATCCAGCATGAACAGAGGGGCGGAAGTGACCTCCAATGTCGCCCTCACTCTG
 L V V K I L V I H D E Q K G P E V T S N A A L T L
 CGGAACCTTTGCAACTGGCAGAAGCAGCACAACCCACCGTGAACGGGATGACAGCACTATGACACAGCAATCTTT
 R N F C N W Q K Q H N P E S D R D A E H Y D T A I L
 TTCACAGACAGGACTGTGTGGGTCCAGACATGTGATACTCTTGGATGGCTGATGTGGAATGTGTGTGATCCG
 F T R Q D L C G S Q T C D T L G M A D V G T V C D P
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 S R S C S V I E D D G L Q A A F T T A H E L G H V F
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 N M P H D D A K Q C A S L N G V N D P G T S H M M A S M
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 L S N L D H S Q P W S P C S A Y M I T S F L D N G H
 GGGGAATGTTTGTATGGCAAGCCTCAGAATCCCATACAGCTCCGAGGCGATCTCCCTGGCAGCTCGTACGATGCCAAC
 G E C L D K L P Q N P I Q L P G M A D V G T S H M M A S M
 CGGCAGTGCCAGTTTACATTTGGGGAGGACTCCAAACACTGCCCTGATGCAGCCAGCACATGTAGCACTTGTGGTGT
 R Q C Q F T F G E D S K H C P D A A S T C S T L W C
 ACCGGACCTCTGTTGGGTGCTGGTGTGTCAAACCAACACTTCCCGTGGGCGGATGGCACAGCTGTGGAGAAGGG
 T G T S G V L V C Q T K H F P D L P G T S I G
 AAATGGTGTATCAACGGCAAGTGTGTGAACAAACCGACAGAAAGCATTTTATGACGCTTTTCATGGAAGCTGGGG
 K W C I N G K C V N K T D R K H F D T P F H G S W G

FIGURE 1

ATGTGGGGGCTTGGGGAGACTGTTTCGAGAACGTGCGGTGGAGGAGTCCAGTACACGATGAGGGAATGTGACAAACCA
 M W G P W G D C S R T C G G G V Q Y T M R E C D N P
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 V P K N G G K Y C E G K R V R Y R S C N L E D C P D
 AATAATGAAAAACCTTTAGAGAGGAACAATGTGAAGCACACAACGAGTTTCAAAAGCTTCCTTTGGGAGTGGGGCT
 N N G K T F R E E Q C E A H N E F S K A S F G S G P
 GCGGTGGAATGGATTCCCAAGTACGCTGGCGTCTCACCAAGGACAGGTGCAAGCTCATCTGCCAAGCCAAAGGCATT
 A V E W I P K Y A G V S P K D R K L I C Q A K G I
 GGCTACTTCTCGTTTTCGACCCCAAGGTTGTAGATGGTACTCCATGTAGCCAGATCCACCTCTGTCTGTGTGCAA
 G Y F F V L Q P K V V D G T P C S P D S T S V C V Q
 GGACAGTGTATAAAGCTGGTTGTGATCGCATCAGTACTCCAAAAGAGTTGTATAAATGTGGTGTTCGGGGGA
 G Q C V K A G C D R I I D S K K K F D K C G V C G G
 AATGGATCTACTGTAAAAAATATCAGGATCAGTTACTAGTGCAAAACCTGGATATCATGATATCATCACAATTCCA
 N G S T C K K I S G S V T S A K P G Y H D I I T I P
 ACTGGAGCCCAACATCGAAGTGAACAGCGGAACAGAGGGGATCCAGGAACAATGGCAGCTTCTTGCCATCAA
 T G A T N I E V K Q R N Q R G S R N K Q F D K C G V C L A A
 TGTGCTGATGGCACATATCTTAATGGTGACTACACTTTGTCCACCTTAGAGCAAGACATTATGTACAAAGGTGT
 A A D G T Y I L N G D Y T L S T L E Q D I M Y K G V
 GTCTTGAGGTACAGCGGCTCCTCTCGGGCATTTGAAAGAATTGCGAGCTTTAGCCCTCTCAAAGAGCCCTTGACCATC
 V L R Y S G S S A A L E R I R S F S P L K E P L T I
 CAGGTTCTTACTGTGGGCARTGCCCTTCGACCTAAAATTAATACACCTACTTCGTAAAGAGAAGAAGGAATCTTTC
 Q V L T V G N A L R P K I K Y T Y F V K K K K E S F
 AATGCTATCCCCACTTTTTCAGCATGGGTCAITGAAGAGTGGGGCGAATGTTCTAAGTCATGTGAATTGGGTGGCAG
 N A I P T F S A W V I E E W G E C S K S C E L G W Q
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 R R L V E C R D I N G Q P A S E C A K E V K P A S T
 AGACCTTGTGCAGACCATCCCTGCCCCAGTGGCAGCTGGGGGAGTGGTCATCATGTTCTAAGACCTGTGGGAAGGT
 R P C A D H P C P Q W Q L G E W S S C S K T C G K G
 TACAAAAAAGAAGCTTGAAGTGTCTGTCCCATGATGGAGGGGTGTATCTCATGAGAGCTGTGATCCTTTAAAGAAA
 Y R L V S L K C L S H D G G V L S H E S C D P L K K
 CCTAAACATTTCATAGACTTTTGACAATGGCAGAATGCAGTTAAGTGGTTAAGTGGTGTAGCTTTGAGGCAAGGC
 P K H F I D E C T M A E C S
 AAGTGAAGGAAGGGCTGGTGAGGGAAGCAAGAAGGCTGGAGGGATCCAGCGTATCTTGCCAGTAACCAAGTGAAGT
 TATCAGTAAGGTGGGATTATGGGGGTAGATAGAAAAGGAGTTGAATCATCAGAGTAACCTGCCAGTTGCAAAATTGAT
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FIGURE 1

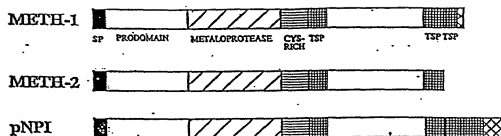


Figure 4

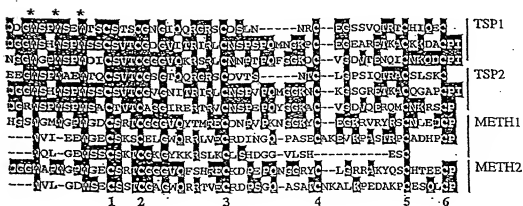
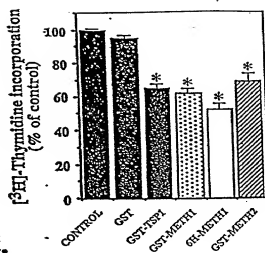
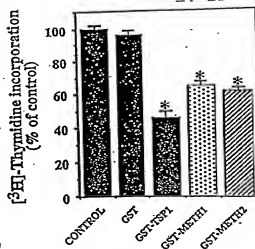


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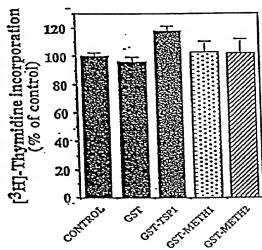
A.



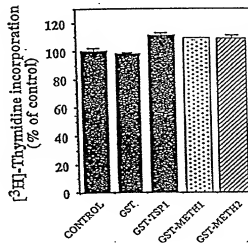
B.



C.



D.



E.

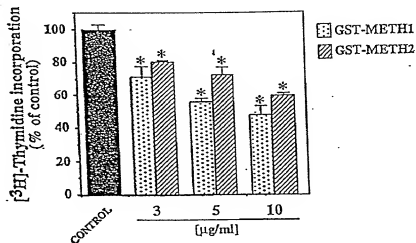


Figure 7

Figure 9

-35

1 AAGCTTAAAAAAGCTGCAAAATAAGT[

Operator 2

-10-

-10
Opbaux 2

50 TAAGATGTACCCA(ATTGGTAACTGCGTTTCACATTA)TTCACCATTA

SD

94 A GAGGAG A A A T T A C A T A T G

Figure 10

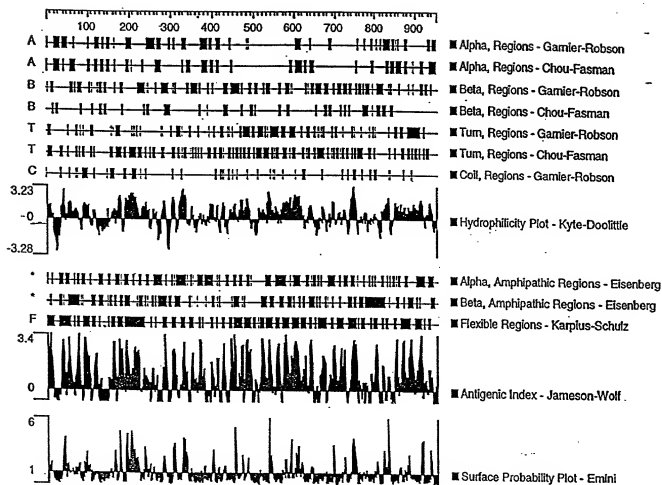


Figure 11

